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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,803	11/19/2001	Nicolas Pierre Georges Certain	2-1032-178	7350

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DES MOINES, IA 50309-4076

EXAMINER

KING, BRADLEY T

ART UNIT PAPER NUMBER

3683

DATE MAILED: 11/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/992,803

Applicant(s)

CERTAIN, NICOLAS PIERRE  
GEORGES

Examiner

Bradley T King

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 21 August 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-15 and 17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 and 17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- |                                                                                              |                                                                             |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                             | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Byrnes et al (US#5449152).

Byrnes et al discloses all the limitations of the instant claims including; at least one set of two tubular cylindrical sleeves of viscoelastic material (figure 5) fitted one inside the other and substantially coaxial, with the interposition of a rigid cylindrical and substantially coaxial intermediate ring so that one of said two sleeves is an internal sleeve secured by an internal cylindrical face belonging to an external cylindrical face of an internal rigid ring and by an external cylindrical face to an internal cylindrical face of the intermediate ring separating the internal sleeve from the other sleeve of the pair of sleeves, which which is an external sleeve secured, by an internal cylindrical face, to an external cylindrical face of the intermediate ring and, by an external cylindrical face, to an internal cylindrical face of an external rigid ring, the internal ring and the external ring being integral, respectively with an internal armature and an external armature, each of which is connected to a respective one of two connecting members for connection of

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the parts.(also note Byrnes et al teach multiple shims between plys). Regarding the recited equation, from the instant specification it appears that the equation merely requires that the stiffness of both layers be substantially equal. Byrnes et al is directed towards this same goal and further recognizes the equation for stiffness (column 3). Therefore, Byrnes et al disclose a damper which substantially follows the required relation.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152).

Byrnes et al disclose all the limitations of the instant claims with exception to the particular type of elastomer and loss angle. Material selection is well known and routine in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select a material with the appropriate characteristics to maximize damping and achieve the required load capacities.

Claims 5-10, 13, 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) in view of De Antonio et al (US#5205029).

Byrnes et al disclose all the limitations of the instant claims with exception to the elastomer being preloaded. Preloading elastomeric bearings is well known in the art and further taught by De Antonio et al for elastomers in the same environment. It would have been obvious to one of ordinary skill in the art at the time the invention was made to preload the elastomeric layers of Byrnes et al as taught by De Antonio et al to increase the service life of the device.

Regarding claims 7-9, the method of preloading the layers are equivalent methods which result in substantially the same final product.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) in view of McGuire (US#6092755).

Byrnes et al disclose all the limitations of the instant claim with exception to a radially thicker part on the outer ring to which the armature is connected. McGuire teaches an outer ring with a thicker part 29 allowing attachment to an armature 70. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the mounting structure taught by McGuire in the device of Byrnes et al to allow quick disassembly of the device and access to the internal surfaces of the damper.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) and McGuire (US#6092755), as applied to claim 11 above, in further view of De Antonio et al (US#5205029).

Byrnes et al and McGuire, as applied to claim 11 above, disclose all the limitations of the instant claims with exception to the elastomer being preloaded. Preloading elastomeric bearings is well known in the art and further taught by De Antonio et al for elastomers in the same environment. It would have been obvious to one of ordinary skill in the art at the time the invention was made to preload the elastomeric layers of Byrnes et al and McGuire as taught by De Antonio et al to increase the service life of the device.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) in view of Olsen (US#6328293).

Byrnes et al disclose all the limitations of the instant claims with exception to the details of the end connections of the device. Olsen teaches a similar linkage system with threaded clevises having locking nuts 23c and opposite hand threads such that the linkage can be adjusted in place. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize connecting structure such as taught by Olsen in the damper of Byrnes et al to simplify installation and maintenance.

***Response to Arguments***

Applicant's arguments filed 8/21/03 have been fully considered but they are not persuasive.

While applicant's arguments are noted, it is maintained that the rejection in view of Byrnes et al is proper. Byrnes discloses cylindrical shims (intermediate rings) disposed between the plys (or sleeves) of the damper. Byrnes further discloses maintaining a uniform stiffness throughout the elastomer portion. While this may be continuous through the elastomer of Byrnes and stepwise in the instant application, it is not clear which claim limitations are intended to provide this distinction.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley T King whose telephone number is (703) 308-8346. The examiner can normally be reached on 11:00-7:30 M-F.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

BTK  
November 6, 2003

  
JACK LAVINDER  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600